

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/569,814  
Source: IFWO  
Date Processed by STIC: 11/09/2006

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 11/09/2006

PATENT APPLICATION: US/10/569,814

TIME: 12:59:45

Input Set : N:\efs\10569814\_efs\pto.da.txt

Output Set: N:\CRF4\11092006\J569814.raw

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3 <110> APPLICANT: TAKARA BIO INC.
5 <120> TITLE OF INVENTION: Method of screening functional nucleotide molecule
7 <130> FILE REFERENCE: 664687
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/569,814
C--> 9 <141> CURRENT FILING DATE: 2006-02-28
9 <150> PRIOR APPLICATION NUMBER: JP 2003-307624
10 <151> PRIOR FILING DATE: 2003-08-29
12 <160> NUMBER OF SEQ ID NOS: 28
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 907
16 <212> TYPE: DNA
17 <213> ORGANISM: Mus musculus
19 <400> SEQUENCE: 1
20 tagcatctcc gagagtttaa agctgaggag gcgggttcat gaaactgata aaaactgctc 60
21 agaaggatta tatcaaggag gcccattttg ctgtcaacca tgccaacctg gtataaaaaa 120
22 agttgaggac tgcaaaatga atgggggtac accaacctgt gcccctatgca cagaagggaa 180
23 ggagtacatg gacaagaacc attatgctga taaatgcaga agatgcacac tctgcgatga 240
24 agagcatggt ttagaagtgg aaacaaactg caccctgacc cagaatacca agtgcaagtg 300
25 caaaccagac ttctactgcg attctcctgg ctgtgaacac tgtgttcgct gcgcctcgtg 360
26 tgaacatgga acccttgagc catgcacagc aaccagcaat acaaactgca ggaaacaaaag 420
27 tcccagaaat cgcctatggt tggtgaccat ccttgttttg ttaattccac ttgtatttat 480
28 atatcgaaag taccggaaaa gaaagtgctg gaaaaggaga caggatgacc ctgaatctag 540
29 aacctccagt cgtgaaacca taccaatgaa tgccctcaaat cttagcttga gtataatacat 600
30 cccgagaatt gctgaagaca tgacaatcca ggaagctaaa aaatttgctc gagaaaataa 660
31 catcaaggag ggcaagatag atgagatcat gcatgacagc atccaagaca cagctgagca 720
32 gaaagtccag ctgctcctgt gctggtacca atctcatggg aagagtgatg catatcaaga 780
33 tttaatcaag ggtctcaaaa aagccgaatg tcgcagaacc ttagataaat ttcaggacat 840
34 ggtccagaag gaccttgga aatcaacccc agacactgga aatgaaaatg aaggacaatg 900
35 tctggag 907
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 21
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA2-1. "nucleotides 1
to 19 are
44 ribonucleotides-other nucleotides are deoxyribonucleotides"
46 <400> SEQUENCE: 2
47 gugcaagugc aaaccagact t 21
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 21
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:

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Input Set : N:\efs\10569814\_efs\pto.da.txt

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55 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA2-2. "nucleotides 1 to 19 are

56 ribonucleotides-other nucleotides are deoxyribonucleotides"

58 <400> SEQUENCE: 3

59 gucugguuug cacuugcact t 21

61 <210> SEQ ID NO: 4

62 <211> LENGTH: 21

63 <212> TYPE: DNA

64 <213> ORGANISM: Artificial Sequence

66 <220> FEATURE:

67 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA3-1. "nucleotides 1 to 19 are

68 ribonucleotides-other nucleotides are deoxyribonucleotides"

70 <400> SEQUENCE: 4

71 agccgaauugu cgcagaacct t 21

73 <210> SEQ ID NO: 5

74 <211> LENGTH: 21

75 <212> TYPE: DNA

76 <213> ORGANISM: Artificial Sequence

78 <220> FEATURE:

79 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA3-2. "nucleotides 1 to 19 are

80 ribonucleotides-other nucleotides are deoxyribonucleotides"

82 <400> SEQUENCE: 5

83 gguucugcga cauucggcut t 21

85 <210> SEQ ID NO: 6

86 <211> LENGTH: 21

87 <212> TYPE: DNA

88 <213> ORGANISM: Artificial Sequence

90 <220> FEATURE:

91 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA4-1. "nucleotides 1 to 19 are

92 ribonucleotides-other nucleotides are deoxyribonucleotides"

94 <400> SEQUENCE: 6

95 aagccgaauug ugcagaact t 21

97 <210> SEQ ID NO: 7

98 <211> LENGTH: 21

99 <212> TYPE: DNA

100 <213> ORGANISM: Artificial Sequence

102 <220> FEATURE:

103 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA4-2. "nucleotides 1 to 19 are

104 ribonucleotides-other nucleotides are deoxyribonucleotides"

106 <400> SEQUENCE: 7

107 guucugcgac auucggcuut t 21

109 <210> SEQ ID NO: 8

110 <211> LENGTH: 21

111 <212> TYPE: DNA

112 <213> ORGANISM: Artificial Sequence

114 <220> FEATURE:

115 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA5-1. "nucleotides 1 to 19 are

116 ribonucleotides-other nucleotides are deoxyribonucleotides"

118 <400> SEQUENCE: 8  
119 ggauuauauc aaggaggcct t

21

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Input Set : N:\efs\10569814\_efs\pto.da.txt

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121 <210> SEQ ID NO: 9
122 <211> LENGTH: 21
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA5-2. "nucleotides 1
to 19 are
128     ribonucleotides-other nucleotides are deoxyribonucleotides"
130 <400> SEQUENCE: 9
131 ggccuccuug auauaaucct t                               21
133 <210> SEQ ID NO: 10
134 <211> LENGTH: 21
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA6-1. "nucleotides 1
to 19 are
140     ribonucleotides-other nucleotides are deoxyribonucleotides"
142 <400> SEQUENCE: 10
143 aucgccuauug guuguugact t                               21
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 21
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA6-2. "nucleotides 1
to 19 are
152     ribonucleotides-other nucleotides are deoxyribonucleotides"
154 <400> SEQUENCE: 11
155 gucaacaacc auaggcgaut t                               21
157 <210> SEQ ID NO: 12
158 <211> LENGTH: 19
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Designed PCR primer to amplify a portion of mouse Fas gene.
165 <400> SEQUENCE: 12
166 cacagttaag agttcatatc                               19
168 <210> SEQ ID NO: 13
169 <211> LENGTH: 19
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Designed PCR primer to amplify a portion of mouse Fas gene.
176 <400> SEQUENCE: 13
177 tggttgctgt gcatggctc                               19
179 <210> SEQ ID NO: 14
180 <211> LENGTH: 36
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Designed PCR primer rsGFP-1 to amplify a portion of rsGFP
gene.

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Input Set : N:\efs\10569814\_efs\pto.da.txt

Output Set: N:\CRF4\11092006\J569814.raw

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187 <400> SEQUENCE: 14
188 cagtcacgac tctagaaaag gagaagaact cttcac          36
190 <210> SEQ ID NO: 15
191 <211> LENGTH: 38
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Designed PCR primer rsGFP-2 to amplify a portion of rsGFP
gene.
198 <400> SEQUENCE: 15
199 cagtcacgac gctagcagtt gtacagttca tccatgcc          38
201 <210> SEQ ID NO: 16
202 <211> LENGTH: 741
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: rsGFP gene
209 <400> SEQUENCE: 16
210 cagtcacgac tctagaaaag gagaagaact cttcactgga gttgtcccaa ttcttgttga 60
211 attagatggg gatgttaacg gccacaagtt ctctgtcagt ggagagggtg aaggtgatgc 120
212 aacatacggg aaacttaccc tgaagttcat ctgcactact ggcaaaactgc ctgttccatg 180
213 gccaacacta gtcactactc tgtgctatgg tgttcaatgc ttttcaagat acccggatca 240
214 tatgaaacgg catgactttt tcaagagtgc catgcccgaa ggttatgtac aggaaaggac 300
215 catcttcttc aaagatgacg gcaactacaa gacacgtgct gaagtcaagt ttgaagggtga 360
216 tacccttggt aatagaatcg agttaaaagg tattgacttc aaggaagatg gcaacattct 420
217 gggacacaaa ttggaataca actataactc acacaatgta tacatcatgg cagacaaaca 480
218 aaagaatgga atcaaagtga acttcaagac ccgccacaaac attgaagatg gaagcggttca 540
219 actagcagac cattatcaac aaaatactcc aattggcgat ggccctgtcc ttttaccaga 600
220 caaccattac ctgtccacac aatctgccct ttcgaaagat cccaacgaaa agagagacca 660
221 catggtcctt cttgagtttg taacagctgc tgggattaca catggcatgg atgaactgta 720
222 caactgctag cgtcgtgact g          741
224 <210> SEQ ID NO: 17
225 <211> LENGTH: 21
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA7-1. "nucleotides 1
to 19 are
231      ribonucleotides-other nucleotides are deoxyribonucleotides"
233 <400> SEQUENCE: 17
234 aagagagacc acauggucct t          21
236 <210> SEQ ID NO: 18
237 <211> LENGTH: 21
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA7-2. "nucleotides 1
to 19 are
243      ribonucleotides-other nucleotides are deoxyribonucleotides"
245 <400> SEQUENCE: 18
246 ggaccaugug gucucucuut t          21
248 <210> SEQ ID NO: 19

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249 <211> LENGTH: 21
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA8-1. "nucleotides 1
to 19 are
255     ribonucleotides-other nucleotides are deoxyribonucleotides"
257 <400> SEQUENCE: 19
258 gcgguucaacu agcagaccat t      21
260 <210> SEQ ID NO: 20
261 <211> LENGTH: 21
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA8-2. "nucleotides 1
to 19 are
267     ribonucleotides-other nucleotides are deoxyribonucleotides"
269 <400> SEQUENCE: 20
270 uggucugcua guugaacggt t      21
272 <210> SEQ ID NO: 21
273 <211> LENGTH: 21
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA9-1. "nucleotides 1
to 19 are
279     ribonucleotides-other nucleotides are deoxyribonucleotides"
281 <400> SEQUENCE: 21
282 agagagacca caugguccut t      21
284 <210> SEQ ID NO: 22
285 <211> LENGTH: 21
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA9-2. "nucleotides 1
to 19 are
291     ribonucleotides-other nucleotides are deoxyribonucleotides"
293 <400> SEQUENCE: 22
294 aggaccaugu ggucucucut t      21
296 <210> SEQ ID NO: 23
297 <211> LENGTH: 21
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Chimeric oligonucleotide designed as RNA10-1. "nucleotides 1
to 19 are
303     ribonucleotides-other nucleotides are deoxyribonucleotides"
305 <400> SEQUENCE: 23
306 guucucuguc aguggagagt t      21
308 <210> SEQ ID NO: 24
309 <211> LENGTH: 21
310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial Sequence

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313 <220> FEATURE:



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/569,814

DATE: 11/09/2006  
TIME: 12:59:46

Input Set : N:\efs\10569814\_efs\pto.da.txt  
Output Set: N:\CRF4\11092006\J569814.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:27; Line(s) 348

Seq#:28; Line(s) 359

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/569,814

DATE: 11/09/2006

TIME: 12:59:46

Input Set : N:\efs\10569814\_efs\pto.da.txt

Output Set: N:\CRF4\11092006\J569814.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date